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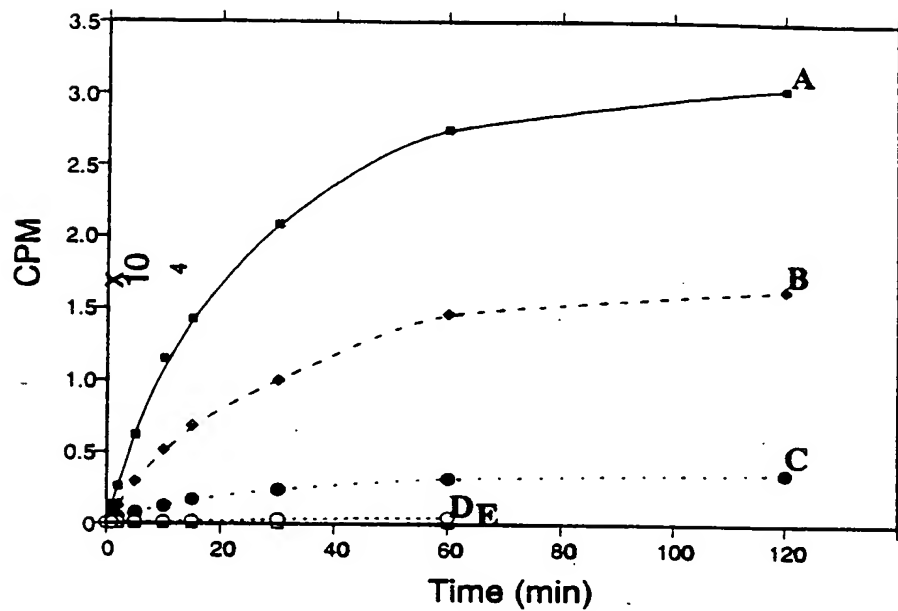
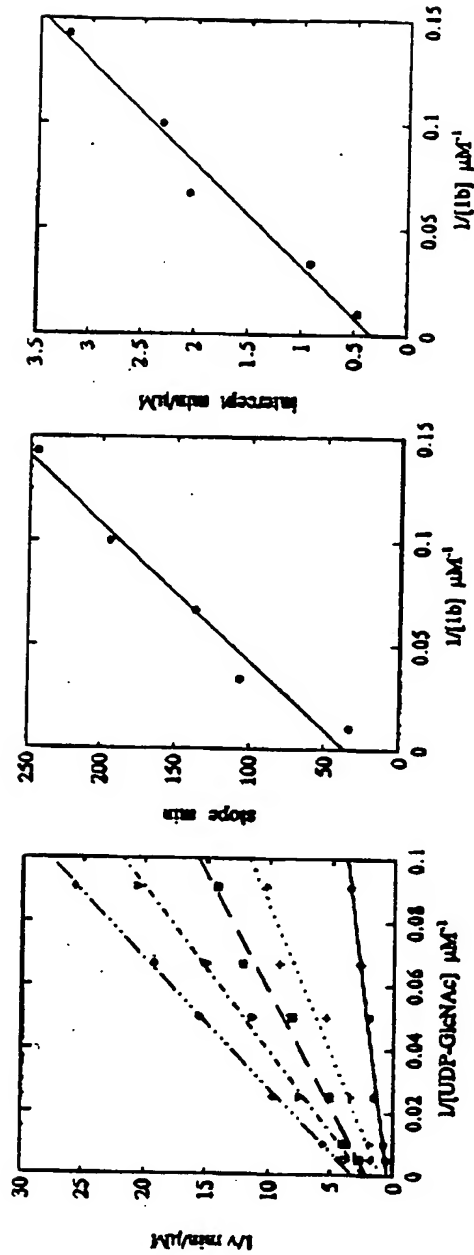


Figure 1

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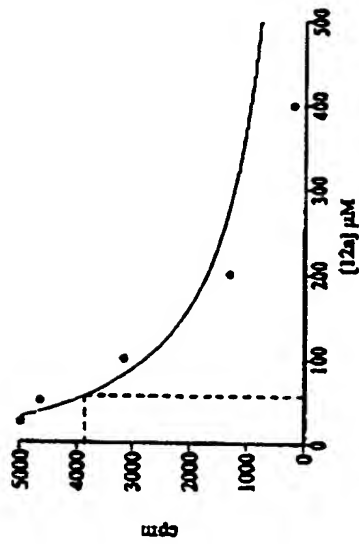
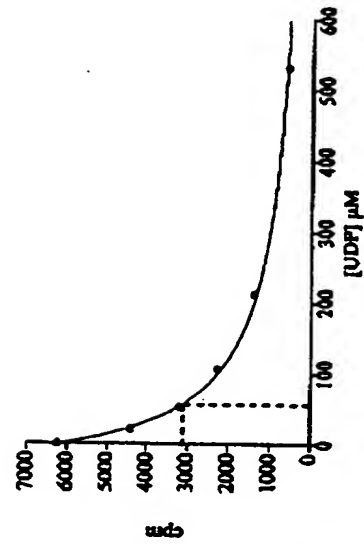
Figures 2 (a) , 2 (b) and 2 (c)



Initial Rate Data for wild-type MurG using synthetic substrate analog 1b.

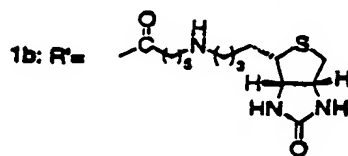
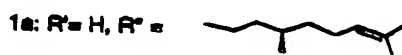
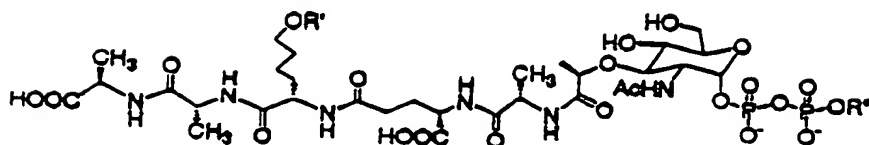
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Figures 3 (a) and 3 (b)



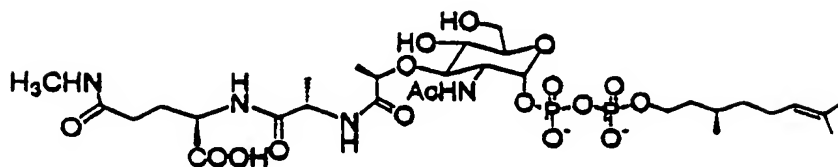
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Figure 4

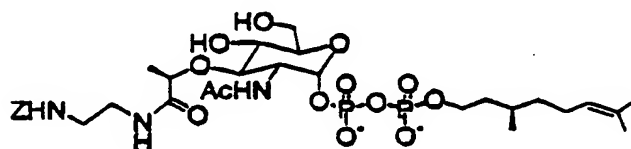


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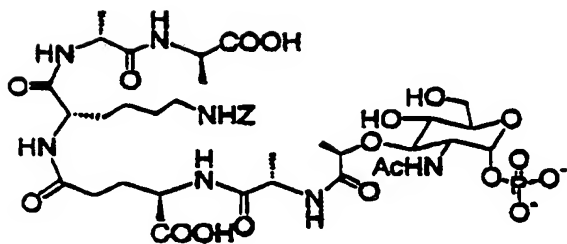
Figure 5



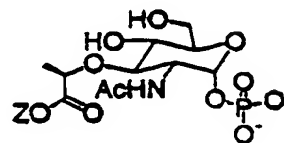
10



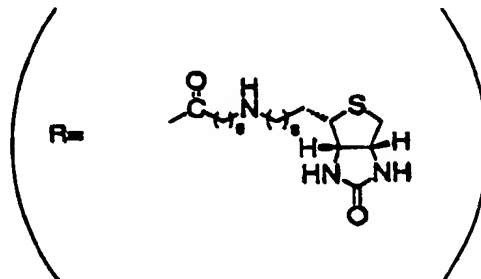
11a: Z= H
 11b: Z= CH₃CO-
 11c: Z= R



12a: Z= H
 12b: Z= R

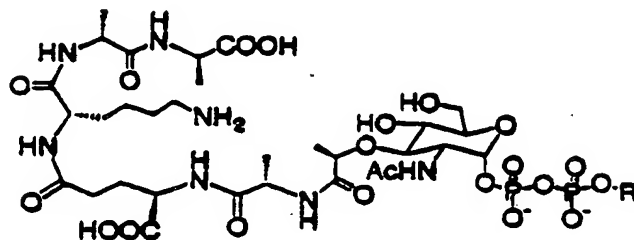


13a: Z= H
 13b: Z= CH₃-



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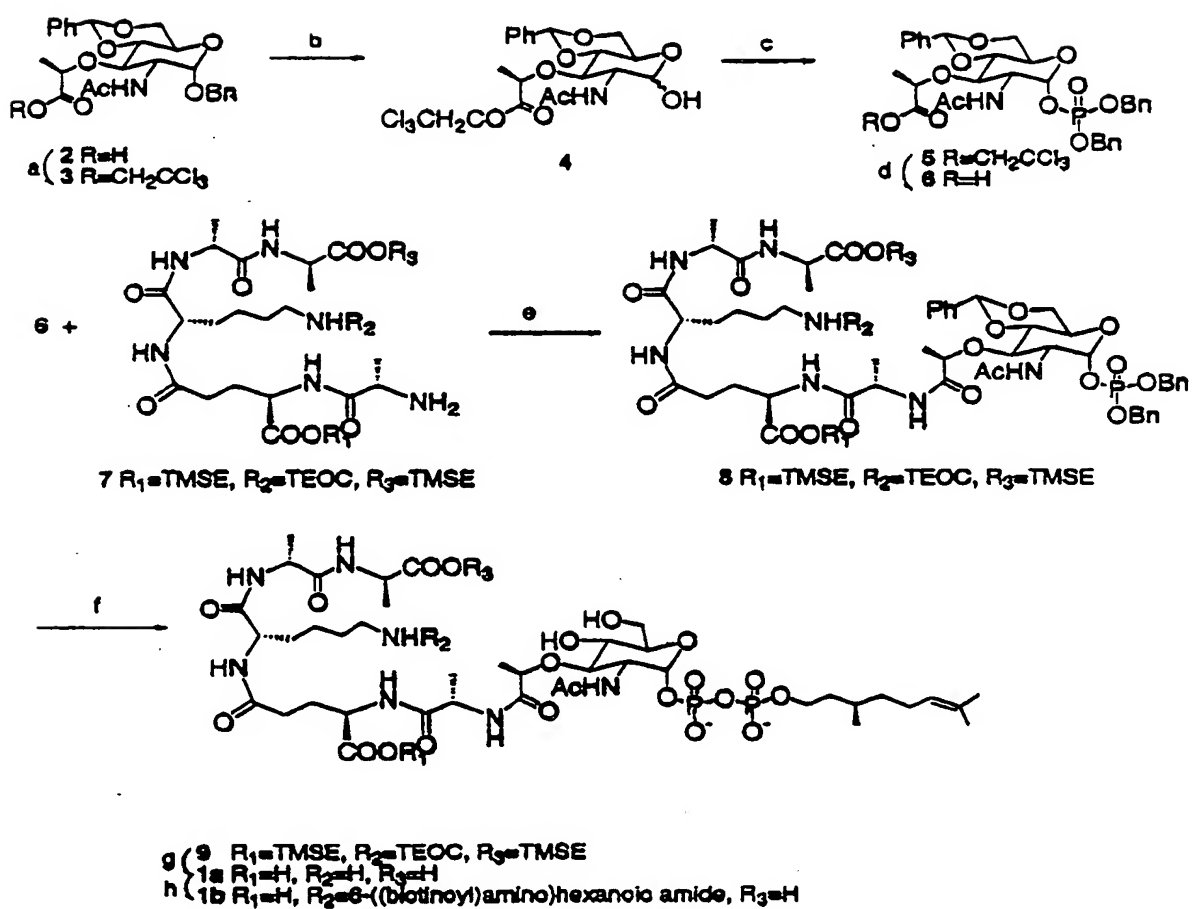
Figure 6



14a: R = CH₃
14b: R = CH₂CH₃
14c: R = CH₂=CHCH₃

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Figure 7



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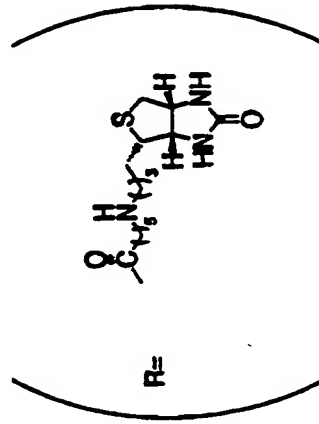
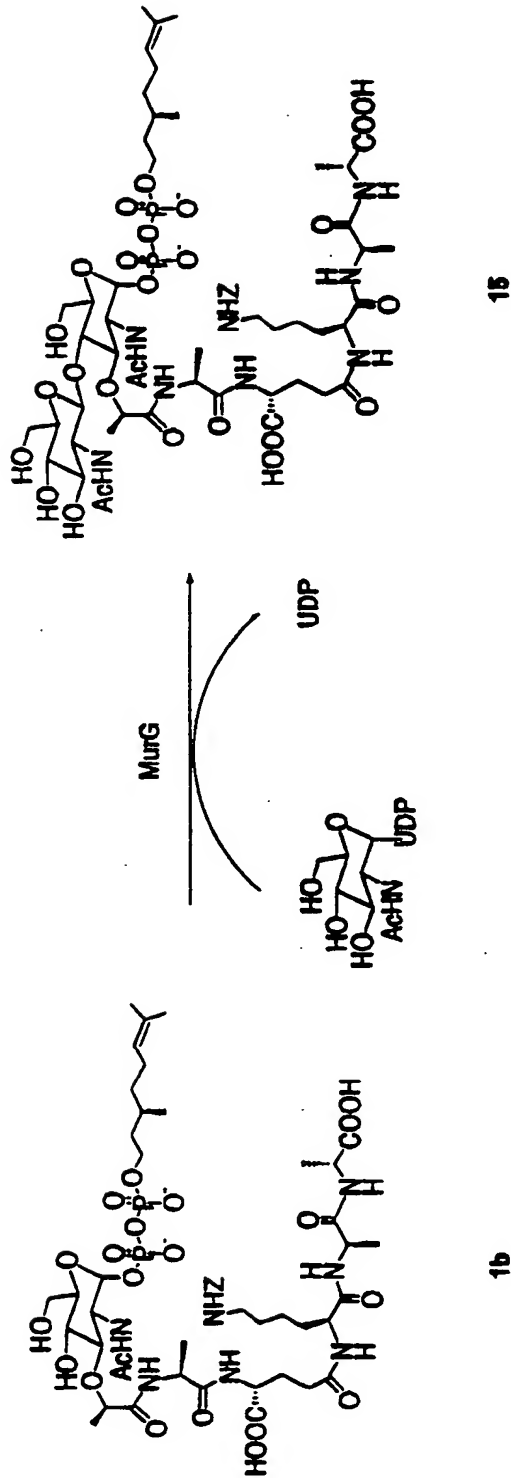


Figure 8